



Attorney Docket No. 58248-CIP (47606)

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

APPLICANT: Chun et al.

U.S.S.N.: 10/684,364

EXAMINER: Not Yet Assigned

FILED: October 11, 2003

GROUP: Not Yet Assigned

FOR: TARGET DETECTION SYSTEM HAVING A CONFORMATIONALLY
SENSITIVE PROBE COMPRISING A NUCLEIC ACID BASED SIGNAL
TRANSDUCER

CERTIFICATE OF MAILING

I hereby certify that this paper (along with any paper referred to as being attached or enclosed) is being deposited with the United States Postal Service with sufficient postage as first class mail in an envelope addressed to: Commissioner for Patents, P.O. Box, Alexandria, VA 22313-1450 on February 12, 2004.

By: Sharon Bizokas
Sharon Bizokas

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

INFORMATION DISCLOSURE STATEMENT

Sir:

Pursuant to 37 C.F.R. §§ 1.97 and 1.98, applicant(s) hereby submit(s) an Information Disclosure Statement for consideration by the Examiner.

I. LIST OF PATENTS, PUBLICATIONS OR OTHER INFORMATION

The patents, publications or other information submitted for consideration by the Office are listed on PTO-1449, attached hereto.

II. COPIES

- a. X Submitted herewith is a legible copy of (i) each foreign patent; (ii) each publication or that portion which caused it to be listed; and (iii) all other information or that portion which caused it to be listed. Copies of U.S. Patents are no longer required.
- b. _____ This application relies, under 35 U.S.C. § 120, on the earlier filing date of prior application Serial No. _____, filed on _____. The following references were submitted to, and/or cited by, the Office in the prior application (s) and, therefore, are not required to be provided in this application.

III. CONCISE EXPLANATION OF THE RELEVANCE
(check at least one box)

- a. X Except as may be indicated below in (b), all of the patents, publications or other information are in the English language or were cited in an English language Search Report, a copy of which is attached hereto (concise explanation not required).
- b. _____ A concise explanation of the relevance of all patents, publications or other information listed that is not in the English language is as follows:
- c. _____ The following additional information is provided for the Examiner's consideration:

FEEs

IV. THIS IDS IS BEING FILED UNDER 37 C.F.R. § 1.97(b)
(check one box)

- a. _____ within three months of the filing date of a national application (37 C.F.R. § 1.97(b) (1)). No fee or certification is required.
- b. _____ within three months of the date of entry of the national stage as set forth in §1.491 in an international application (37 C.F.R. § 1.97(b) (2)). No fee or certification is required.

- c. X Before the mailing date of a first Action on the merits (37 C.F.R. § 1.97(b) (3)). No fee or certification is required. In the event that a first Office Action on the merits has been issued, please consider this IDS under 37 C.F.R. § 1.97(c) and see the certification under 37 C.F.R. § 1.97(e) below, or, if no certification has been made, charge our deposit account a fee in the amount of \$180.00 as required by 37 C.F.R. § 1.17(p).

V. THIS IDS IS BEING FILED UNDER 37 C.F.R. § 1.97(c):
(check one box)

before the mailing date of a Final Office Action under 37 C.F.R. § 1.113 (See 37 C.F.R. § 1.97(c) (1)) or before the mailing date of a Notice of Allowance under 37 C.F.R. § 1.311 (See 37 C.F.R. § 1.97(c) (2)).

- a. _____ No certification; therefore, a fee in the amount of \$180.00 is required by 37 C.F.R. § 1.17(p).
or
b. X See the certification below. No fee is required.

VI. STATEMENT UNDER 37 C.F.R. § 1.97(e) (check only one box)

The undersigned hereby states that

- a. _____ each item of information contained in the IDS was cited in a communication from a foreign Patent Office in a counterpart foreign application not more than three months prior to the filing of this IDS; or
b. _____ no item of information contained in the IDS was cited in a communication from a foreign Patent Office in a counterpart foreign application or, to the best of my knowledge after making reasonable inquiry, was known to any individual designated in 37 C.F.R. § 1.56(c) more than three months prior to the filing of this statement.

c. _____ Some of the items of information were cited in a communication from a foreign Patent Office. As to this information, the undersigned certifies that each item of information contained in the IDS was cited in a communication from a foreign Patent Office in a counterpart foreign application not more than three months prior to the filing of this IDS. As to the remaining information, the undersigned hereby certifies that no item of this remaining information contained in the IDS was cited in a communication from a foreign Patent Office in a counterpart foreign application or, to the best of my knowledge after making reasonable inquiry, was known to any individual designated in 37 C.F.R. § 1.56(c) more than three months prior to the filing of this statement.

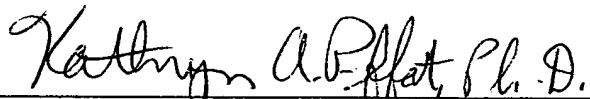
_____ Please charge Deposit Account No. 04-1105 in the amount of \$180.00 for the above-indicated fee. A triplicate copy of this paper is attached.

X No fee is required.

If the Examiner has any questions concerning this IDS, he/she is requested to contact the undersigned. If it is determined that this IDS has been filed under the wrong rule, the PTO is requested to consider this IDS under the proper rule, with a petition if necessary, and charge the appropriate fee to Deposit Account No. 04-1105.

Respectfully submitted,

Date: February 12, 2004



Kathryn A. Piffat, Ph.D., Reg. No. 34,901

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FORM PTO-1449

INFORMATION DISCLOSURE STATEMENT

ATTY DOCKET NO.

58248-CIP
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SERIAL NO.

10/684,364

APPLICANT(S): Chun et al.

FILING DATE:
10/11/03

ART UNIT:



UNITED STATES PATENT DOCUMENTS

| EXAM. INITIAL | | DOCUMENT NUMBER | DATE | NAME | CLASS | SUB CLASS | FIL. DATE IF APPR |
|------------------|----|--------------------|----------|-----------------|-------|--------------|-------------------------|
| | AA | 4,447,546 | 5/8/84 | Hirschfeld | 436 | 527 | 8/23/82 |
| | AB | 4,708,929 | 11/24/87 | Henderson | 435 | 7 | 4/8/85 |
| | AC | 4,764,459 | 8/16/88 | Hampar et al. | 435 | 5 | 12/28/84 |
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| | AE | 4,968,602 | 11/6/90 | Dattagupta | 435 | 6 | 11/21/89 |
| | AF | 5,489,507 | 2/6/96 | Chehab | 435 | 6 | 5/1/91 |
| | AG | 5,578,458 | 11/26/96 | Caskey et al. | 435 | 6 | 10/1/91 |
| | AH | 5,616,465 | 4/1/97 | Lucas et al. | 435 | 6 | 8/9/95 |
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| | AK | 5,885,470 | 3/23/99 | Parce et al. | 216 | 33 | 4/14/97 |
| | AL | 5,925,517 | 7/20/99 | Tyagi et al. | 435 | 6 | 5/12/95 |
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| | AP | 6,027,879 | 2/22/00 | Lucas et al. | 435 | 6 | 8/9/95 |

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| | | DOCUMENT NUMBER | DATE | COUNTRY | CLASS | SUB CLASS | TRAN YES/NO |
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| | BA | WO 01/85997 A1 | 15.11.2001 | PCT | C12Q | 1/68 | Y |
| | | | | | | | |

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CA

Chen et al., "Highly sensitive biological and chemical sensors based on reversible fluorescence quenching in a conjugated polymer", PNAS 96(22):12287-12292 (1999)

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| FORM PTO-1449 | | ATTY DOCKET NO. | SERIAL NO. |
| INFORMATION DISCLOSURE STATEMENT | | 58248-CIP (47606) | 10/684,364 |
| | | APPLICANT(S): Chun et al. | |
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| UNITED STATES PATENT DOCUMENTS | | | |
| OTHER DOCUMENTS (INCLUDING AUTHOR, TITLE, DATE, PERTINENT PAGES, ETC.) | | | |
| | CB | Fang et al., "Designing a Novel Molecular Beacon for Surface-Immobilized DNA Hybridization Studies", J. Am. Chem. Soc., 121:2921-2922 (1999) | |
| | CC | Grakoui et al., "A <i>cis</i> -Acting Mutation in the Sindbis Virus Junction Region Which Affects Subgenomic RNA Synthesis", Journal of Virology, 63(12):5216-5227 (1989) | |
| | CD | Griffin et al., "Direct genetic analysis by matrix-assisted laser desorption/ionization mass spectrometry", Proc. Natl. Acad. Sci. USA, 96:6301-6306 (1999) | |
| | CE | Jeong et al., "Kinase Assay Based on Thiophosphorylation and Biotinylation", BioTechniques, 27(6):1232-1238 (1999) | |
| | CF | Webb, "A continuous spectrophotometric assay for inorganic phosphate and for measuring phosphate release kinetics in biological systems", Proc. Natl. Acad. Sci. USA, 89:4884-4887 (1992) | |
| Examiner: | | Date: | |
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